

Case No. **72212**

012004

**MAIL STOP PATENT APPLICATION  
COMMISSIONER FOR PATENTS  
PO BOX 1450  
ALEXANDRIA, VA 22313-1450**

I HEREBY CERTIFY THIS PAPER OR FEE IS BEING DEPOSITED WITH THE U.S. POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESSEE" SERVICE UNDER 37 CFR 1.10 ON THE DATE INDICATED BELOW AND IS ADDRESSED TO: MAILSTOP PATENT APPLICATION, COMMISSIONER FOR PATENTS, PO BOX 1450, ALEXANDRIA, VA 22313-1450.

EXPRESS MAIL NO.: **EL 964278922 US**

Transmitted herewith for filing is the patent application of:

DATE OF DEPOSIT: **January 20, 2004**

NAME:

**JOELLEN MURPHY**

SIGNATURE:

Inventors: **Scott L. SMITH, Steven M. ROBINSON**

For: **TECHNIQUE FOR INDEPENDENT GROUND FAULT DETECTION OF MULTIPLE  
TWISTED PAIR TELEPHONE LINES CONNECTED TO A COMMON ELECTRICAL  
POWER SOURCE**

**Please note the following:**

Patent Application: 22 pages, 12 claims.  
4 sheet(s) of drawings.

The suggested drawing figure to be published is FIG. 3

A declaration and power of attorney.

Citation Under 37 CFR 1.97 and PTO-1449.

Applicant qualifies as a small entity under 37 CFR § 1.27.

Assignee info:

Name: **ADTRAN, INC.**

Address: **901 EXPLORER BLVD., HUNTSVILLE, AL 35806**

State of Incorporation: **DELAWARE**

[ ] Applicant claims priority benefit to the following foreign application(s):

Country:

Application No.:

Filing Date:

[ ] Applicant claims priority benefit to the following U.S. application(s):

Application No.:

Filing Date:

The filing fee has been calculated as shown below:

	(Col. 1)		(Col. 2)		SMALL ENTITY			LARGE ENTITY	
FOR:	# FILED		# EXTRA		RATE	FEE		RATE	FEE
BASIC FEE						\$ 385	OR		\$ 770
TOTAL CLAIMS	12	-20			X 9	\$	OR	X 18	\$
INDEP CLAIMS	3	-3			X 43	\$	OR	X 86	\$
* If the difference in Col. 1 is less than "0", enter "0" in Col. 2.					TOTAL	\$		TOTAL	\$ 770

[X] Authorization is given to charge the Filing Fee in the amount of **\$770.00** to Deposit Account **01-0484**.

[X] Authorization is given to charge the Assignment Recordal Fee in the amount of **\$40.00** to Deposit Account: **01-0484**.

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[X] **PLEASE ADDRESS ALL CORRESPONDENCE TO ATTORNEY OF RECORD:  
CHARLES E. WANDS**

[X] Please associate this application with Customer No. **27975**.

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**27975**

PATENT TRADEMARK OFFICE

January 20, 2004

**CHARLES E. WANDS**  
Reg. No. 25,649

22581 U.S. PTO  
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